

# MATHS RIDDLES ANSWERS

WEEK BEGINNING: MONDAY 25<sup>TH</sup> JANUARY 2021

<b>RIDDLE:</b>	If 6 puzzle solvers can solve 12 puzzles in 12 minutes, how long should it take a single puzzle solver to solve 60 puzzles?
<b>ANSWER:</b>	It takes a puzzle solver 6 minutes to solve a puzzle. Therefore, to solve 60 puzzles it takes 360 minutes, or 6 hours.

<b>RIDDLE:</b>	Fill in the missing numbers in the following series: 101 99 102 98 103 97 ? ?
<b>ANSWER:</b>	104 and 96. There are really 2 series in one, one starts at 101 and counts up; the other starts at 99 and counts down.

<b>RIDDLE:</b>	If you have a cake, how many pieces of cake can you form with 3 straight cuts?
<b>ANSWER:</b>	8 pieces. Make two cuts like you normally would then one horizontal cut from the side of the cake.

<b>RIDDLE:</b>	When asked how old he was, Bob replied, "In 2 years time I will be twice as old as I was five years ago." How old is he?
<b>ANSWER:</b>	Bob is 12 years old

<b>RIDDLE:</b>	A teacher of mathematics used an unconventional method to measure a 15 minute time limit for a test. He just used 7 and 11 minute hourglasses. During the whole time he turned hourglasses only 3 times (turning both hourglasses at once counts as one flip). Explain how the teacher measured 15 minutes.
<b>ANSWER:</b>	When the test began, the teacher turned both 7-min and 11-min hourglasses. After the 7-min one spilt its last grain, he turned it upside down (the 11-min one is still to spill sand for another 4 minutes). When the 11-min hourglass was split, he turned the 7-min one upside down for the last time.